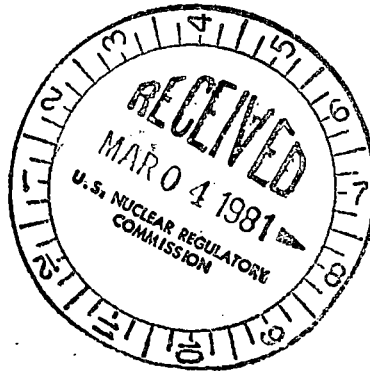


Docket No. 50-255

Consumers Power Company  
ATTN: Mr. R. B. DeWitt  
Vice President  
Nuclear Operations  
212 West Michigan Avenue  
Jackson, MI 49201

cc w/encl:

D. P. Hoffman, Nuclear  
Licensing Administrator  
R. W. Montross, Manager  
Central Files  
AD/Licensing  
AD/Operating Reactors  
AEOD  
Resident Inspector, RIII  
PDR  
Local PDR  
NSIC  
~~NSIC~~  
Ronald Callen, Michigan  
Public Service Commission  
Myron M. Cherry



8103160 662

Q



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION III  
799 ROOSEVELT ROAD  
GLEN ELLYN, ILLINOIS 60137

February 27, 1981

Gentlemen:

This Information Notice No. 81-04 is provided as an early notification of a possibly significant matter and it is expected that recipients will review the information for possible applicability to their facilities. No response is requested at this time. If further NRC evaluations so indicate, an IE Circular or Bulletin will be issued to further recommend or request specific licensee actions. If you have questions regarding this matter, please contact this office.

Sincerely,

*James G. Keppler*  
James G. Keppler  
Director

Enclosure: IE Information  
Notice No. 81-04

SSINS No.: 6835  
Accession No.:  
8011040265  
IN 81-04

UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
OFFICE OF INSPECTION AND ENFORCEMENT  
WASHINGTON, D.C. 20555

February 27, 1981

IE Information Notice No. 81-04: CRACKING IN MAIN STEAM LINES

Description of Circumstances:

The Virginia Electric Power Company promptly notified the NRC on February 23, 1981 that a radiography examination, during the ongoing steam generator replacement outage at Surry Unit 1, had revealed a lengthy crack indication in the I.D. counterbore area of a weldment on the in-line "T" fitting which connects the vertical run of 30-inch piping to the safety relief valve header and 30-inch main steam line of Steam Generator "A". This piping connection is located outside the containment penetration immediately upstream of the main steam isolation valve as shown in the attached sketch.

A visual and dye penetrant examination on the pipe I.D. surface of the weldment nearest the containment penetration established that the cracking extended about 120° around the fitting counterbore between the 4 o'clock to 8 o'clock position. Cracking was also observed in the weld counterbore at the opposite end of the T-fitting during visual examination of the piping interior. Radiographic examination of "B" and "C" main steam line T-fitting welds disclosed crack indications at similar locations.

Metallurgical specimens of the cracking were trepanned from the T-fitting of the "A" main steam line for analysis. Controlled excavation and depth measurements of the crack at its mid-length indicated a crack depth of about 0.090" in this location. The cause of cracking has not yet been established.

VEPCO has planned an ultrasonic examination of similar weldments in Surry Unit 2 main steam lines utilizing "Hot Piping" ultrasonic techniques. Preparations are also being made to ultrasonic examine similar weldments at North Anna Unit 1, currently in cold shutdown for refueling.

Recommendation to Licensees:

This information is provided as an early notification of a significant safety matter that is still under review by the NRC staff. It is expected that recipients will review the information for possible applicability to their plants. For those plants having similar main steam line configurations which are currently in a refueling or extended repair outage, it is recommended that a ultrasonic and/or radiographic examination of the three welds and counterbore areas of the T-fittings be performed before resumption of operations, unless some current basis for assurance of piping integrity is available.

No response to this notice is requested at this time. If you have any questions regarding this matter, please contact the Director of the appropriate NRC Regional Office.

Attachments:

1. Sketch
2. Recently issued IE Information Notices

RECENTLY ISSUED  
IE INFORMATION NOTICES

Information Notice No.	Subject	Date of Issue	Issued to
81-03	Checklist for Licensees Making Notifications of Significant Events in Accordance with 10 CFR 50.72	2/12/81	All power reactor facilities with an OL
81-02	Transportation of Radiography Devices	1/23/81	All Radiography licensees
81-01	Possible Failures of General Electric Type HFA Relays	1/16/81	All power reactor facilities with OL or CP.
80-45	Potential Failure of BWR Backup Manual Scram Capability	12/17/80	All PWR facilities with an OL or CP
80-44	Actuation of ECCS in the Recirculation Mode While in Hot Shutdown	12/16/80	All PWR facilities with an OL or CP
80-43	Failures of the Continuous Water Level Monitor for the Scram Discharge Volume at Dresden Unit No. 2	12/5/80	All power reactor facilities with OL or CP
80-42	Effect of Radiation on Hydraulic Snubber Fluid	11/24/80	All power reactor facilities with OL or CP
80-41	Failure of Swing Check Valve in the Decay Heat Removal System at Davis-Besse Unit No. 1	11/10/80	All power reactor facilities with an OL or CP
80-40	Excessive Nitrogen Supply Pressure Actuates Safety-Relief Valve Operation to Cause Reactor Depressurization	11/10/80	All power reactor facilities with OL or CP

OL = Operating Licenses  
CP = Construction Permits

FEB 27 1981

TO: Regional Directors  
(Word Processing Unit)

FROM: Beth Matosko: IE:HQ

The enclosed is attachment 1 to IE Information Notice No. 81-04 to  
be issued today, 2/27/81.

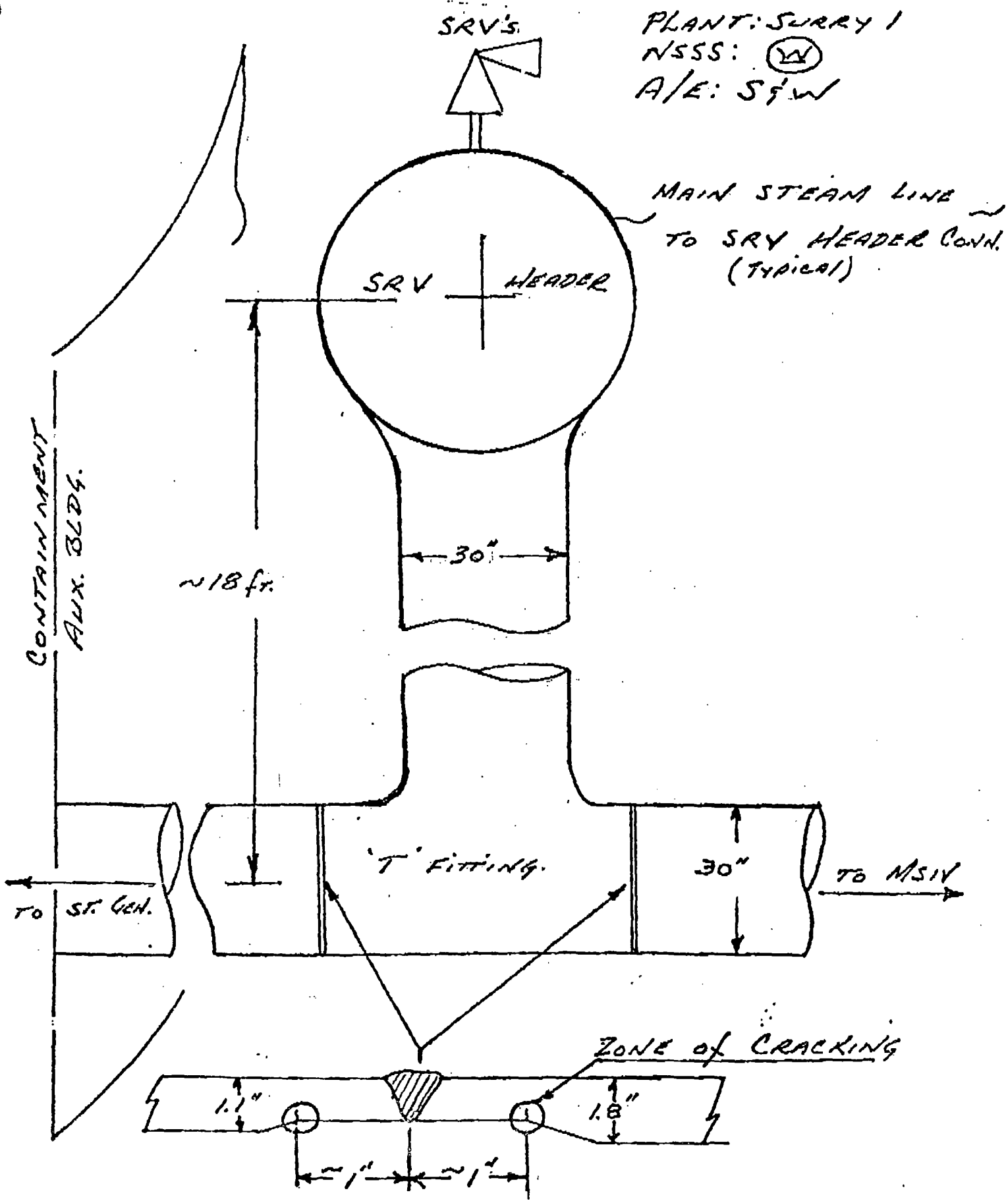
CONTACT: W. J. Collins  
49-28181



Beth Matosko  
Administrative Branch, IE

2/27/81  
145  
K.W

PLANT: SURRY 1  
NSSS: (W)  
A/E: SFW



CONTAINMENT  
AUX. BLDG.

MAIN STEAM LINE  
TO SRY HEADER CONN.  
(TYPICAL)

~18 ft.

30"

SRV HEADER

SRV'S

TO ST. GEN.

T Fitting

30"

TO MSIV

ZONE of CRACKING

1.1"

1.8"

~1" ~1"